

**ABSTRACT**

The invention provides a monoclonal antibody which specifically recognizes proliferative human hepatocytes, a method for isolating
5 proliferative human hepatocytes by using the antibody, and a method for inducing to differentiate the proliferative human hepatocytes to functional human hepatocytes. Further, the invention provides the proliferative human hepatocytes and functional human hepatocytes obtained by the methods, as well as a cell kit and a hybrid artificial liver comprising those
10 hepatocytes.

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